

ABSTRACT

The invention relates to a process for preparing  
10 organic hydroperoxides, which process involves (a)  
oxidizing an organic compound to obtain a reaction  
product containing organic hydroperoxide,  
(b) treating at least part of the organic  
hydroperoxide containing reaction product with a  
15 basic aqueous solution and separating  
hydrocarbonaceous phase containing organic  
hydroperoxide from basic aqueous phase, (c) washing  
with water at least part of the separated  
hydrocarbonaceous phase containing organic  
hydroperoxide and separating hydrocarbonaceous phase  
20 containing organic hydroperoxide from aqueous phase,  
and (d) optionally repeating step (c) one or more  
times, in which process solid particles are removed  
from the reaction product containing organic  
hydroperoxide and/or basic aqueous solution before  
25 use in step (b), preferably by filtering. The  
invention also relates to a process for preparing  
oxirane compounds in which such organic hydroperoxide  
is used.